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PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF ENTOMOLOGY

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FARMERS' BULLETINS.

- 440. Spraying peaches for control of brown-rot, scab, and curculio.
- 442. Treatment of bee diseases.
- 444. Remedies and preventives against mosquitoes.
- 447. Bees.
- 450. Some facts about malaria.
- 492. The more important insect and fungous enemies of the fruit and foliage of the apple.
- 540. The stable fly.
- 606. Collection and preservation of insects and other material for use in the study of agriculture.
- 627. The house centipede.
- 636. Chalcis fly in alfalfa seed.
- 637. The grasshopper problem and alfalfa culture.
- 640. The Hessian fly.
- 650. San Jose scale and its control.
- 657. The chinch bug.
- 658. Cockroaches.
- 659. The true clothes moths.
- 662. The apple-tree tent caterpillar.
- 668. The squash-vine borer.
- 671. Harvest mites or chiggers.
- 674. Control of the citrus thrips in California and Arizona.
- 675. The round-headed apple-tree borer.
- 691. Grasshoppers and their control on sugar beets and truck crops.
- 695. Out-door wintering of bees.
- 699. Hydrocyanic-acid gas against household insects.
- 701. The bagworm, an injurious shade-tree insect.
- 705. The catalpa sphinx.
- 708. The leopard moth: A dangerous imported enemy of shade trees.
- 721. The rose-chaffer.
- 722. The leaf blister mite of pear and apple.
- 723. The oyster-shell scale and the scurfy scale.
- 725. Wireworms destructive to cereal and forage crops.
- 731. The true army worm and its control.
- 733. The corn and cotton wireworm in its relation to cereal and forage crops, with control measures.
- 734. Flytraps and their operation.
- 737. The clover leafhopper and its control in the Central States.
- 739. Cutworms and their control in corn and other cereal crops.
- 740. House ants: Kinds and methods of control.
- 741. The alfalfa weevil and methods of controlling it.
- 747. Grasshoppers and their control with relation to cereal and forage crops.



- 752. The fall army worm or "grass worm" and its control.
- 754. The bedbug.
- 762. The false chinch bug and measures for controlling it.
- 763. Orchard barkbeetles and pinhole borers and how to control them.
- 766. The common cabbage worm.
- 778. Powder-post damage by *Lyctus* beetles to seasoned hardwood.
- 789. Mushroom pests and how to control them.
- 799. Carbon disulphid as an insecticide.
- 801. Mites and lice on poultry.
- 804. Aphids injurious to orchard fruits, currant, gooseberry, and grape.
- 819. The tobacco budworm and its control.
- 831. The red spider on cotton and how to control it.
- 835. How to detect outbreaks of insects and save the grain crops.
- 837. The asparagus beetles and their control.
- 843. Important pecan insects and their control.
- 845. The gipsy moth and brown-tail moth and their control.
- 846. The tobacco beetle and how to prevent loss from it.
- 848. The boll-weevil problem.
- 851. The house fly.
- 856. Control of diseases and insect enemies of the home vegetable garden.
- 857. Screw-worms and other maggots affecting animals.
- 860. Cranberry insect problems and suggestions for solving them.
- 862. Control of the citrus mealybug in California.
- 867. Tobacco hornworm insecticide.
- 868. Increasing the potato crop by spraying.
- 872. The bollworm or corn earworm.
- 875. The rough-headed corn stalk-beetle.
- 880. Fumigation of ornamental greenhouse plants with hydrocyanic-acid gas.
- 890. How insects affect the cotton plant and means of combating them.
- 891. The corn root-aphis and methods of controlling it.
- 897. Fleas and their control.
- 902. The silverfish: An injurious household insect.
- 908. Information for fruit growers about insecticides, spraying apparatus, and important insect pests.
- 914. Control of the melon aphis.
- 923. Fumigation of citrus trees.
- 928. Control of the Argentine ant in orange groves.
- 933. Spraying for the control of insects and mites attacking citrus trees in Florida.
- 940. White grubs..
- 944. Controlling the garden webworm in alfalfa fields.
- 950. The southern corn rootworm and farm practices to control it.
- 959. The spotted garden slug.
- 961. Transferring bees to modern hives.
- 971. The control of the clover-flower midge.
- 975. The control of European foulbrood.
- 982. Control of the green clover worm in alfalfa fields.
- 983. Bean and pea weevils.
- 1003. How to control billbugs destructive to cereal and forage crops.
- 1006. The jointworm and its control.

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- 1007. Control of the onion thrips.
- 1011. The woolly white fly in Florida citrus groves.
- 1012. Preparation of bees for outdoor wintering.
- 1014. Wintering bees in cellars.
- 1020. The sweet-potato weevil and its control.
- 1025. The larger corn stalk-borer.
- 1029. Conserving corn from weevils in the Gulf Coast States.
- 1037. White ants as pests in the United States and methods of preventing their damaga.
- 1038. The striped cucumber beetle and its control.
- 1039. Commercial comb-honey production.
- 1046. The European corn borer: A menace to the country's corn crop.

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DEPARTMENT BULLETINS.

- 8. The western corn root-worm.
- 93. The temperature of the honeybee cluster in winter.
- 100. Walnut aphides in California.
- 111. The Sequoia pitch moth: A menace to pine in western Montana.
- 113. The lesser bud-moth.
- 124. The alfalfa caterpillar.
- 131. Repellents for protecting animals from the attacks of flies.
- 134. Citrus fruit insects in Mediterranean countries.
- 161. The Mediterranean fruit fly in Bermuda.
- 170. The European pine-shoot moth.
- 173. The life history and habits of the pear thrips in California.
- 184. The huisache girdler.
- 233. Relation of the Arizona wild cotton weevil to cotton planting in the arid West.
- 245. Further experiments in the destruction of fly larvae in horse manure.
- 264. The violet rove beetle.
- 295. The Zimmerman pine moth.
- 382. Cotton-boll weevil control in the Mississippi delta, with special reference to square picking and weevil picking.
- 416. The red spider on cotton.
- 443. The New Mexico range caterpillar and its control.
- 491. The melon fly in Hawaii.
- 550. Control of the grape-berry moth in the Erie-Chautauqua grape belt.
- 564. Collection of weevils and infested squares as a means of control of the cotton-boll weevil in the Mississippi delta.
- 571. The pecan-leaf case-bearer.
- 597. Some biological and control studies of *Gastrophilus haemorrhoidalis* and other bots of horses.
- 598. The hickory tiger-moth.
- 640. The Mediterranean fruit fly.
- 643. The melon fly.
- 703. Miscellaneous truck-crop insects in Louisiana. I. Insects injurious to globe artichoke. II. The granulated cutworm. III. Experiments in controlling the tomato fruitworm with arsenicals.
- 707; Results of experiments with different substances against bedbugs, cockroaches, clothes moths, and carpet beetles.





- 723. The pink bollworm with special reference to steps taken by the Department of Agriculture to prevent its establishment in the United States.
- 730. Papers on deciduous-fruit insects: I. The grape curculio. II. The grape root-borer. III. Control of the root form of the woolly apple aphid.
- 731. Recent experimental work in poisoning cotton boll weevils.
- 737. The tobacco beetle: An important pest in tobacco products.
- 746. The sugar-cane moth borer.
- 766. A study of *Compsilura concinnata*, an imported tachinid parasite of the gipsy moth and the brown-tail moth.
- 771. A study of the effect of storage, heat, and moisture on pyrethrum.
- 774. Life history and habits of the mealy plum aphid.
- 778. The rose midge.
- 779. The grain bug.
- 780. Nosema-disease.
- 783. The rice moth.
- 787. Protection from the locust borer.

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are in agreement with the experimental facts. The second part of the paper is devoted to a discussion of the details of the structure of the atom, and to a comparison of the theoretical results with the experimental facts. It is shown that the theoretical results are in good agreement with the experimental facts, and that the theory of the structure of the atom is in a satisfactory state.